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EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 12/11/72

Operator EL PASO NATURAL GAS COMPANY		Lease Roelofs #7	
Location 1840/N, 1780/E, Sec. 22, T29N, R8W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3394	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3312	To 3342	Total Depth: 3394	Shut In 12/4/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1082	+ 12 = PSIA 1094	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 91	+ 12 = PSIA 103		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 132	
Temperature: T = 59 °F	Ft = 1.0010	n = .85	Fpv (From Tables) 1.007	Gravity .645	Fg = .9645

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(103)(1.0010)(0.9645)(1.007) = 1238 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left( \frac{1196836}{1179412} \right)^n = (1238)(1.0148)^{.85} = (1238)(1.0125)$$

$$Aof = 1254 \text{ MCF/D}$$

NOTE: The well produced a light mist of water throughout the test.

TESTED BY B. J. Broughton

WITNESSED BY \_\_\_\_\_

*William D Welch*

William D. Welch  
Well Test Engineer

